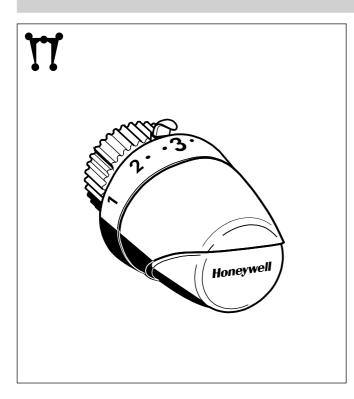
Honeywell

T2000 Series Thera-4 Design

RADIATOR THERMOSTATS IN COMPACT SIZE

PRODUCT DATA



Design

The radiator thermostat consists of:

- · Handwheel with lid and socket
- Sensor with support cage
- · Spindle assembly
- Connection nut

Materials

- Handwheel, lid and socket made of plastic, white to RAL9016
- · Support cage and spindle construction made of plastic
- · Sensor filled with liquid
- Connection nut made of brass, nickel-plated for M30x1,5 connection
- Connection nut made of plastic, white to RAL 9016 for DA version

Application

Thermostats are installed onto thermostatic valve bodies (TRV bodies). The combination of thermostat and TRV body, (TRV), controls the room temperature by regulating the flow of heating water into a heat exchanger.

TRVs are installed in water-based heating systems at the supply or, less commonly at the return connection of radiators or other heat exchangers.

Thera-4 Design type thermostats conform to the European Standard EN215 when used with Honeywell TRV bodies according to table 2 on page 3.

Thera-4 Design with M30 x 1,5 connection are suitable for all Honeywell TRV bodies and radiator inserts as well as other TRV bodies and radiator inserts with M30 x 1,5 connection and 11,5 mm closing dimension.

Thera-4 Design-DA with Danfoss snap connection are suitable for TRV bodies and valve inserts with a Danfoss RA type compatible snap connection.

Features

- Thera-4 Design with M30 x 1.5 connection conforms to European standard EN215
- With liquid sensing element
- · Modern design
- Compact size
- Easy to clean
- Easy to use range stops

Specifications

Thermostat connection • M30 x 1,5

· Danfoss snap connection

Setpoint range • 0 - \$\psi\$ - 1..5 (with zero-position)

• * - 1..5 (without zero-position)

Temperature range With zero-position ('0'): 1...28°C (34...82°F)

Without zero-position:

6...28°C (43...82°F)

Closing dimension 11,5 mm (Thera-4 Design)

NOTE: Zero-position is also thermostatically controlled – when temperature falls the TRV may open.

Dimensions

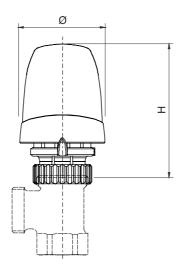


Fig. 1. Thera-4 Design with internal sensor

Table 1. Dimensions

Item	H closed	H open	Ø		
Fig. 1 and Fig. 2	73	79	49		

All dimensions in mm if not stated differently.

Accessories

Theft-protection ring, white



TA6900A001



Cover ring, white

TA3000C003



Screwdriver for theft-protection ring



TA6900B001

Range stops, 10 blue and 10 red



TA3000C001

Range stops, 20 white



TA3000C002

Range stops, 20 chrome



For M30x1,5 connection only

TA1000A001

Ordering Information

Item	Zero- position ('0')	Connection	Colour	Сар	OS-No.					
Thera-4 Design, Thera-4 Design-DA with internal sensor										
Liquid-filled sensing element		M30 x 1,5	white / white	Honeywell	T2001					
	•	M30 x 1,5	white / white	Honeywell	T2001W0					
		DA snap connection	white / white	Honeywell	T2001DA					
	•	DA snap connection	white / white	Honeywell	T2001DAW0					
		M30 x 1,5	white / chrome	Honeywell	T2021					
	•	M30 x 1,5	white / chrome	Honeywell	T2021W0					
		DA snap connection	white / chrome	Honeywell	T2021DA					
	•	DA snap connection	white / chrome	Honeywell	T2021DAW0					
		M30 x 1,5	chrome / chrome	Honeywell	T2221					
	•	M30 x 1,5	chrome / chrome	Honeywell	T2221W0					
		DA snap connection	chrome / chrome	Honeywell	T2221DA					
	•	DA snap connection	chrome / chrome	Honeywell	T2221DAW0					

EN215 Information

OS-Nos. T2001, T2001W0, T2021,T2021WO, T2221 and T2221WO type Thera-4 Design thermostats in connection with below TRV bodies (marked •) conform to the European Standard EN215. The highlighted boxes identify available body patterns of one certain valve type.

	Thera-4 Design	EN 215 requirements	
Min. setpoint temperature	6°C (43°F)	512°C (4154°F)	
Max. setpoint temperature	28°C (82°F)	≤ 32°C (90°F)	
Hysteresis	≤ 0,3K	≤ 1,0K	
Influence of differential pressure	0,10,5K	≤ 1,0K	
Influence of static pressure	0,4K	≤ 1,0K	
Influence of heating medium	1K	≤ 1,5K	
Response time	30 min.	≤ 40 min.	

NOTE: Influence of differential pressure depends on used TRV body.

Table 2. Comparison of Thera-4 Design specs and EN 215 requirements

Valve type	Angle to DIN	Straight to DIN	Angle to NF	Straight to NF	Compact angle	Compact straight	Horizontal angle	Corner angle	Swanneck	Other	Angle (re- turn)	Straight (return)
ВВ	•	•	•	•	•	•						
KV ₃												
KV4												
KV ₅	•	•	•	•								
UBG	•	•	•	•								
GB										•		
SL	•	•	•	•								
V	•	•	•	•	•	•						
FV	•	•	•	•	•	•						
sc												
Н												

Table 3. EN 215 cross reference

Setpoint

Thera-4 Design type thermostats with zero-position ('0')

Setpoint	0	*	1	2	3	4	5
°C	1	6	14	18	21	24	28
°F	34	43	57	64	70	75	82

Thera-4 Design type thermostats without zero-position ('0')

iora i Boolgii typo tromilodidio Mitrodi Eoro poolitori (0)									
Setpoint		*	1	2	3	4	5		
°C		6	14	18	21	24	28		
°F		43	57	64	70	75	82		

NOTE: All °C and °F-values approximate.

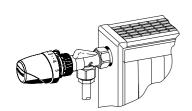
NOTE: Heating can freeze when thermostats with zero-

position are set at position '0'.

NOTE: Zero-position is also thermostatically controlled -

when temperature falls the TRV may open.

Installation Examples



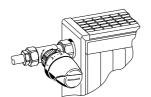






Fig. 3. Installation of Thera-4 Design with internal sensor

Honeywell GmbH Möhnestraße 55 Phone: (49) 2932 9880

Fnorie: (49) 2932 9880 Fax: (49) 2932 988239 D-59755 Arnsberg-Neheim www.honeywell.com

